FieldStat Water Stress Forecasts

Tom Shapland, PhD
Cofounder
Tule

About Tule

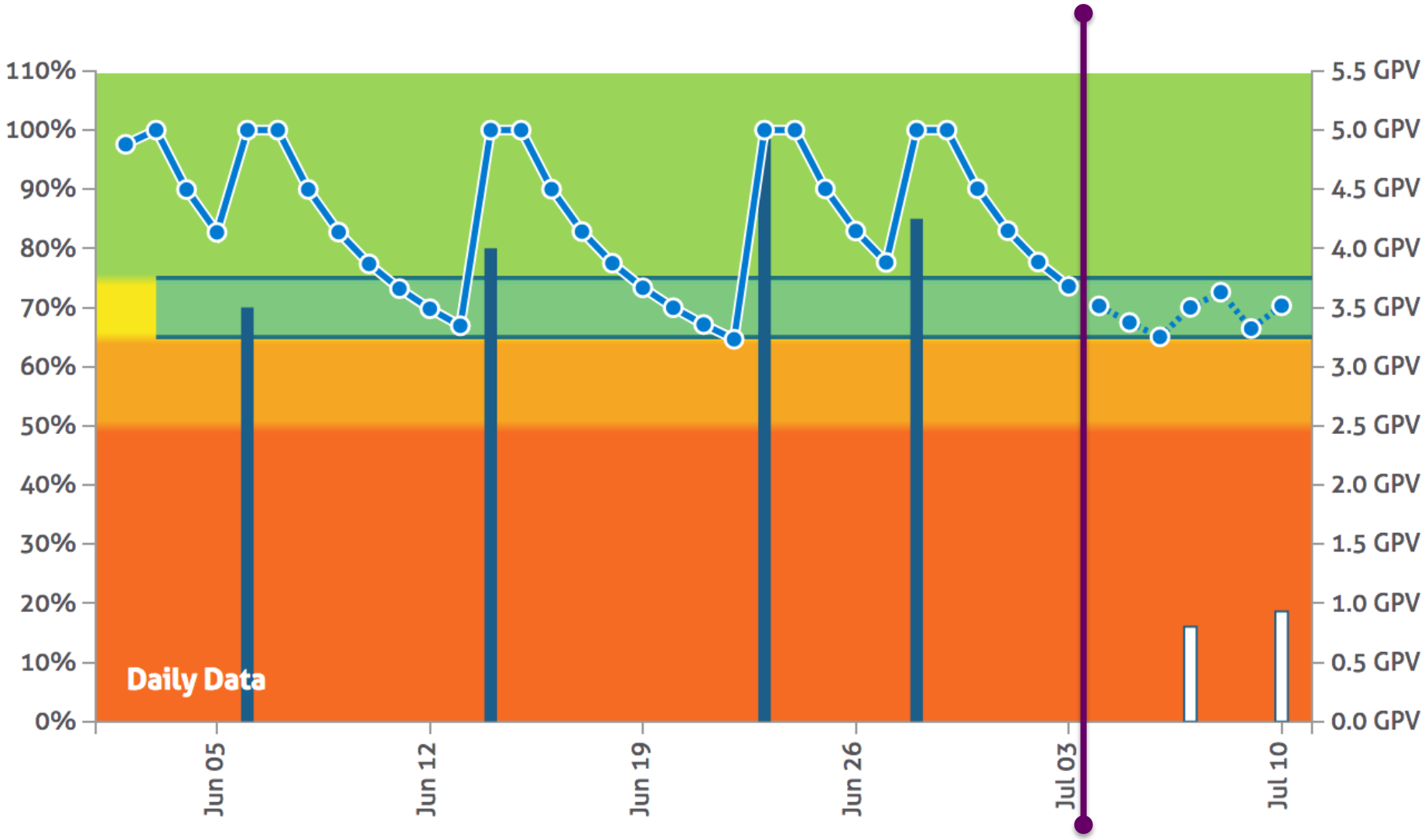
A Tule Sensor Measures:

1. Evapotranspiration
2. Crop Water Stress (Ks)
3. Applied Irrigation

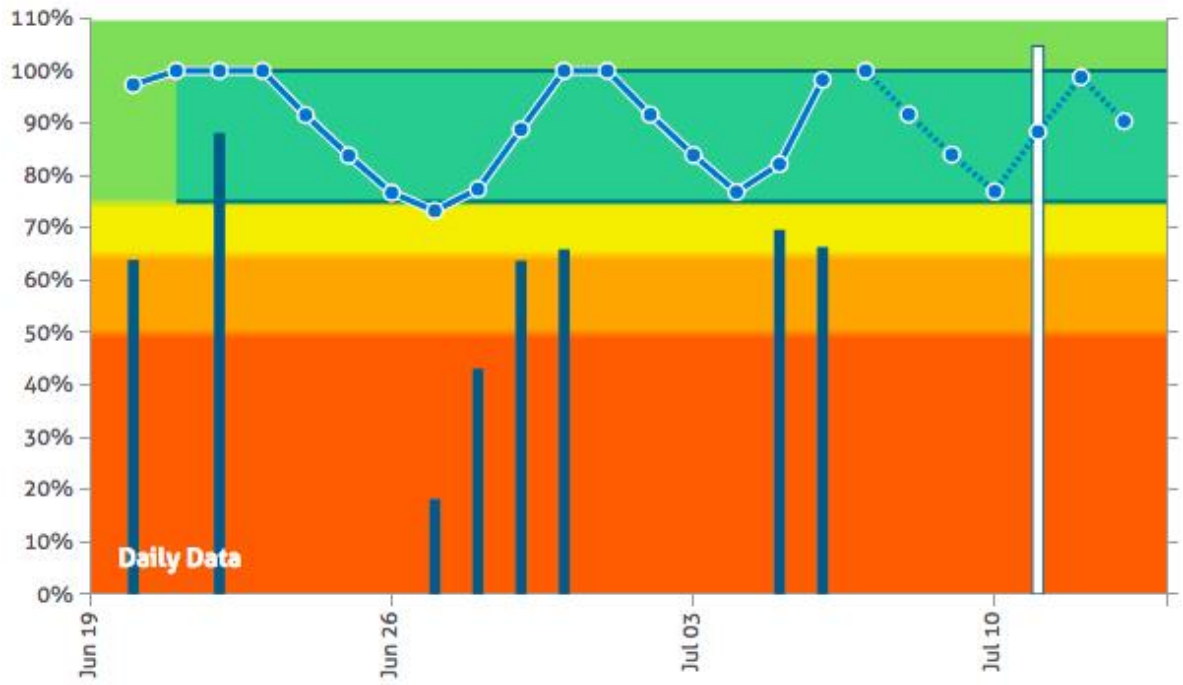
More background:

- UC Davis innovation
- >1000 sensors in CA.
- $1500 / yr subscription

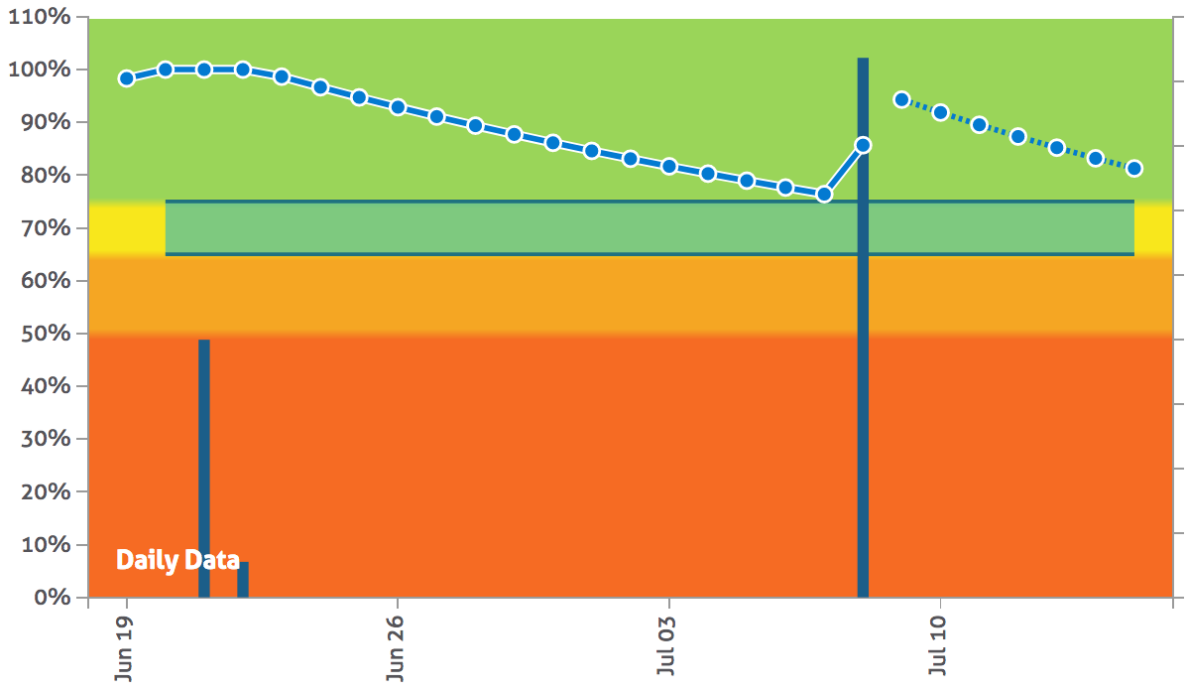
Water Stress Forecasts:
An Entirely New Farming Capability



Science Background



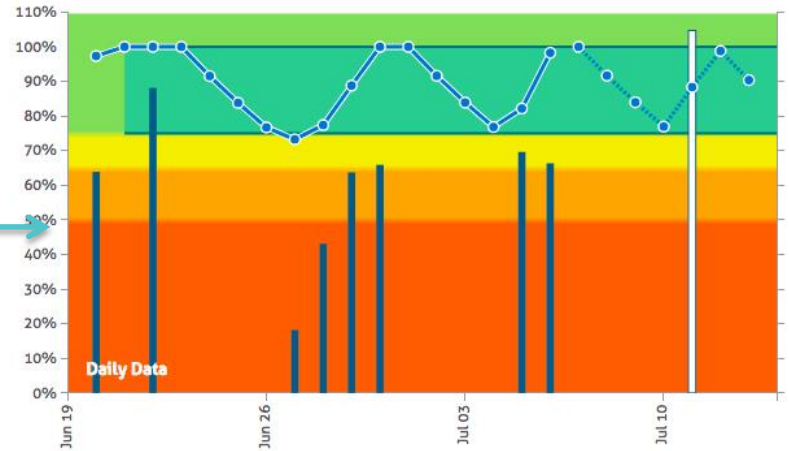
Weak Block



Vigorous Block

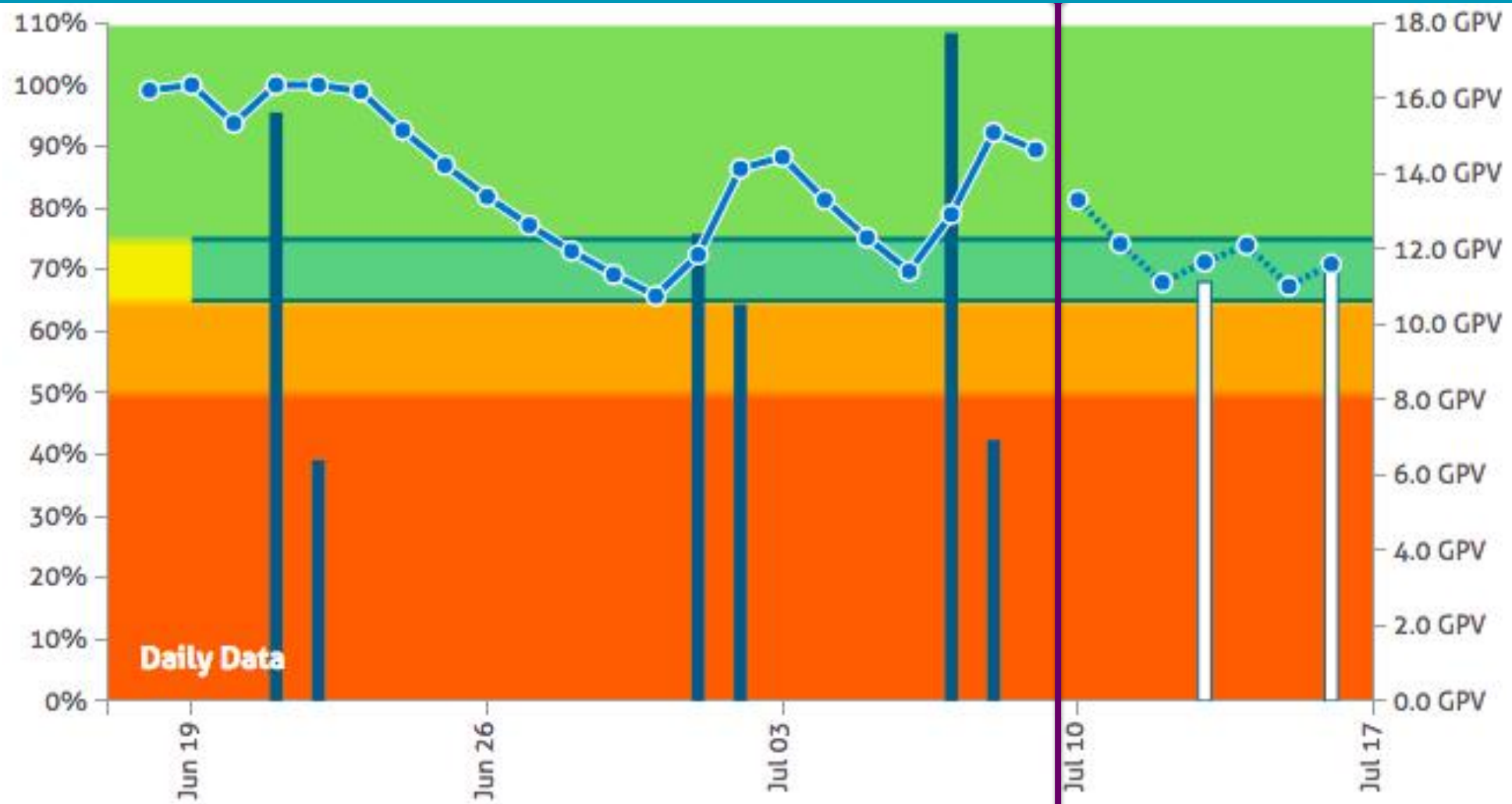
Same time period. Very different change in water status.

Science Background



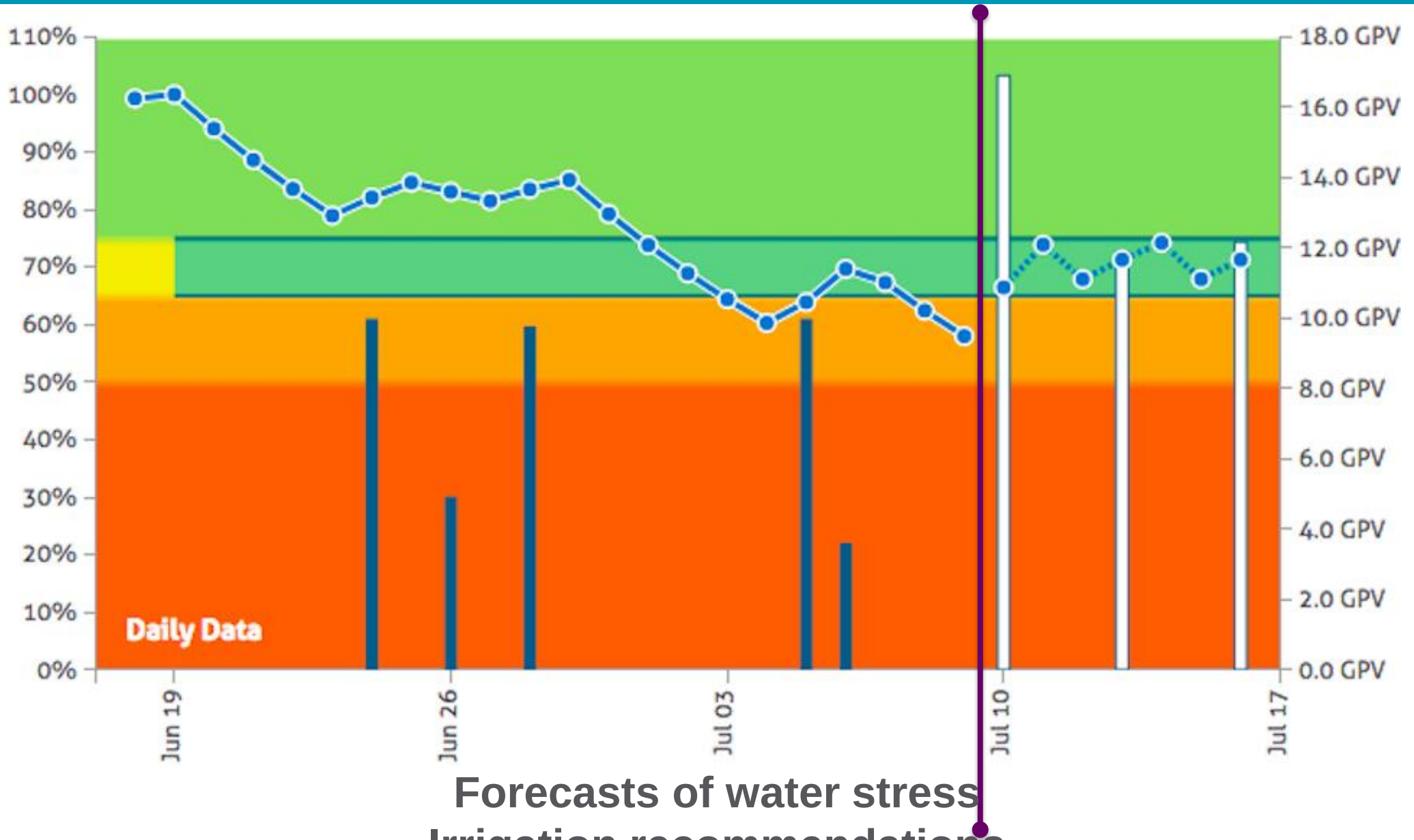
Site-specific model: the water status response to water additions (irrigation and rain) and water loss (ETa)
Mechanistic understanding water status as a function of water additions / losses
Trained daily using the Tule sensor Actual ET, irrigation, and water stress data

FieldStat Forecast Example: On Target



Forecasts of water stress
Irrigation recommendations

FieldStat Forecast Example: Alert



Forecasts of water stress
Irrigation recommendations

How does each irrigation decision influence crop yield and quality?

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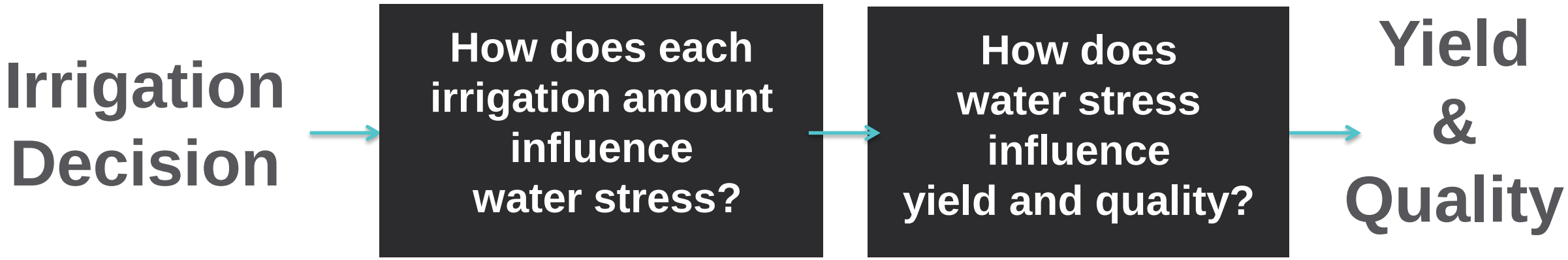

www.tuletechnologies.com
support@tuletechnologies.com